



```

name: <unnamed>
log: C:\Dropbox\Alecia\Stability of Political Attitudes\Replication Prep\GSS\d
> ata\comparisons.smcl
log type: smcl
opened on: 10 Dec 2025, 19:20:48

```

```

1 .
2 . use "GSS_2006_2020RecodedAppendedPanels.dta"
3 .
4 . generate wavefe = yearintv
5 .
6 . xtset panel_id yearintv, delta(2)

```

```

Panel variable: panel_id (unbalanced)
Time variable: yearintv, 2006 to 2020, but with gaps
Delta: 2 units

```

```

7 .
8 .
9 .
10.
11.
12.
13.
14. /**Interclass correlation coefficients*/
15.
16.     /*Ideological Identification*/
17.
18. icc polviews panel_id yearintv if panel== 1,mixed absolute
    (766 targets omitted from computation because not rated by all raters)

```

```

Intraclass correlations
Two-way mixed-effects model
Absolute agreement

```

```

Random effects: panel_id      Number of targets =    1205
Fixed effects:  yearintv     Number of raters   =      3

```

polviews	ICC	[95% conf. interval]	
Individual	.5989584	.5698018	.6272814
Average	.8175356	.7989356	.8346825

```

F test that
ICC=0.00: F(1204.0, 2408.0) = 5.49          Prob > F = 0.000

```

```

19.
20. icc polviews panel_id yearintv if panel== 2,mixed absolute
    (791 targets omitted from computation because not rated by all raters)

```

```

Intraclass correlations
Two-way mixed-effects model
Absolute agreement

```

```

Random effects: panel_id      Number of targets =    1196
Fixed effects:  yearintv     Number of raters   =      3

```

polviews	ICC	[95% conf. interval]	
Individual	.6173874	.588966	.6449274
Average	.8287915	.8112733	.8449366

```

F test that
ICC=0.00: F(1195.0, 2390.0) = 5.85          Prob > F = 0.000

```

21.
 22. `icc polviews panel_id yearintv if panel== 3,mixed absolute`
 (784 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **1228**
 Fixed effects: **yearintv** Number of raters = **3**

polviews	ICC	[95% conf. interval]	
Individual	.6526789	.6263573	.6780788
Average	.8493418	.8341367	.8633703

F test that
 ICC=0.00: $F(1227.0, 2454.0) = 6.64$ Prob > F = 0.000

23.
 24. `/* cannot compute because no case (individual) observed in all waves of panel 4`
`> icc polviews panel_id yearintv if panel== 4,mixed absolute`
`> */`
 25.
 26.
 27.
 28.
 29. `/*Government spending too much, too little, or about the right amount on mil`
`> itary, armaments and defense.*/`
 30.
 31. `icc rec_natarms panel_id yearintv if panel== 1,mixed absolute`
 (382 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **605**
 Fixed effects: **yearintv** Number of raters = **3**

rec_natarms	ICC	[95% conf. interval]	
Individual	.4790221	.4314579	.5256586
Average	.7339294	.6948107	.7687625

F test that
 ICC=0.00: $F(604.0, 1208.0) = 3.79$ Prob > F = 0.000

32.
 33. `icc rec_natarms panel_id yearintv if panel== 2,mixed absolute`
 (418 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **574**
 Fixed effects: **yearintv** Number of raters = **3**

rec_natarms	ICC	[95% conf. interval]	
Individual	.5108626	.4629005	.5574915
Average	.7580594	.7211033	.7907745

F test that
 ICC=0.00: $F(573.0, 1146.0) = 4.19$ Prob > F = 0.000

34.
 35. `icc rec_natarms panel_id yearintv if panel== 3,mixed absolute`
 (390 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **613**
 Fixed effects: **yearintv** Number of raters = **3**

rec_natarms	ICC	[95% conf. interval]	
Individual	.517361	.4717177	.5618077
Average	.7627985	.7281709	.7936574

F test that
 ICC=0.00: F(612.0, 1224.0) = 4.25 Prob > F = 0.000

36.
 37. /* cannot compute because no case (individual) observed in all waves of panel 4
 >
 > `icc rec_natarms panel_id yearintv if panel== 4,mixed absolute`
 > */

38.
 39.
 40.
 41. /*Government spending too much, too little, or about the right amount on wel
 > fare.*/

42. `icc rec_natfare panel_id yearintv if panel== 1,mixed absolute`
 (396 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **592**
 Fixed effects: **yearintv** Number of raters = **3**

rec_natfare	ICC	[95% conf. interval]	
Individual	.5140938	.4676797	.5593349
Average	.7604234	.7249502	.7920086

F test that
 ICC=0.00: F(591.0, 1182.0) = 4.19 Prob > F = 0.000

43.
 44. `icc rec_natfare panel_id yearintv if panel== 2,mixed absolute`
 (439 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **552**
 Fixed effects: **yearintv** Number of raters = **3**

rec_natfare	ICC	[95% conf. interval]	
Individual	.5345422	.4874031	.5802571
Average	.7750417	.7404318	.8057208

F test that
 ICC=0.00: F(551.0, 1102.0) = 4.47 Prob > F = 0.000

45.
 46. `icc rec_natfare panel_id yearintv if panel== 3,mixed absolute`
 (397 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **604**
 Fixed effects: **yearintv** Number of raters = **3**

rec_natfare	ICC	[95% conf. interval]	
Individual	.4875922	.440483	.5337392
Average	.7405773	.7025374	.7744785

F test that
 ICC=0.00: F(603.0, 1206.0) = 3.88 Prob > F = 0.000

47.
 48. `/* cannot compute because no case (individual) observed in all waves of panel 4`
`>`
`> icc rec_natfare panel_id yearintv if panel== 4,mixed absolute`
`> */`

49.
 50.
 51.
 52. `/*Government spending too much, too little, or about the right amount on imp`
`> roving and protecting the environment.*/`

53. `icc rec_natenvir panel_id yearintv if panel== 1,mixed absolute`
 (384 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **604**
 Fixed effects: **yearintv** Number of raters = **3**

rec_natenvir	ICC	[95% conf. interval]	
Individual	.4777689	.4250829	.5284759
Average	.7329476	.6892618	.7707656

F test that
 ICC=0.00: F(603.0, 1206.0) = 3.88 Prob > F = 0.000

54.
 55. `icc rec_natenvir panel_id yearintv if panel== 2,mixed absolute`
 (395 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **596**
 Fixed effects: **yearintv** Number of raters = **3**

rec_natenvir	ICC	[95% conf. interval]	
Individual	.4376115	.3873172	.4871257
Average	.7000951	.6547555	.7402184

F test that
 ICC=0.00: F(595.0, 1190.0) = 3.39 Prob > F = 0.000

56.
 57. `icc rec_natenvir panel_id yearintv if panel== 3,mixed absolute`
 (383 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **616**
 Fixed effects: **yearintv** Number of raters = **3**

rec_natenvir	ICC	[95% conf. interval]	
Individual	.5492393	.5054425	.5916806
Average	.7851964	.7540598	.8129858

F test that
 ICC=0.00: F(615.0, 1230.0) = 4.66 Prob > F = 0.000

58.
 59. `/* cannot compute because no case (individual) observed in all waves of panel 4`
`>`
`> icc rec_rec_natenvir panel_id yearintv if panel== 4,mixed absolute`
`> */`

60.
 61.
 62.
 63.
 64. `/*The number of immigrants to America nowadays should be reduced a lot, redu`
`> ced a little, remain the same as it is, increased a little, or increased a lot*/`

65. `icc rec_letinla panel_id yearintv if panel== 1,mixed absolute`
 (200 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **794**
 Fixed effects: **yearintv** Number of raters = **2**

rec_letinla	ICC	[95% conf. interval]	
Individual	.5749665	.5264611	.6197393
Average	.7301317	.6897799	.7652334

F test that
 ICC=0.00: F(793.0, 793.0) = 3.70 Prob > F = 0.000

66.
 67. `icc rec_letinla panel_id yearintv if panel== 2,mixed absolute`
 (500 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **811**
 Fixed effects: **yearintv** Number of raters = **3**

rec_letinla	ICC	[95% conf. interval]	
Individual	.4907021	.4502286	.5304448
Average	.7429611	.7107162	.772159

F test that
 ICC=0.00: F(810.0, 1620.0) = 3.91 Prob > F = 0.000

68.
 69. `icc rec_letin1a panel_id yearintv if panel== 3,mixed absolute`
 (557 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **860**
 Fixed effects: **yearintv** Number of raters = **3**

rec_letin1a	ICC	[95% conf. interval]	
Individual	.5033326	.4645172	.5413987
Average	.7524912	.7224089	.7798147

F test that
 ICC=0.00: F(859.0, 1718.0) = 4.04 Prob > F = 0.000

70.
 71. /* cannot compute because no case (individual) observed in all waves of panel 4
 >
 > `icc rec_letin1a panel_id yearintv if panel== 4,mixed absolute`
 > */

72.
 73.
 74.
 75. /* Party Identification*/
 76. `icc rec_partyid panel_id yearintv if panel== 1,mixed absolute`
 (736 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **1260**
 Fixed effects: **yearintv** Number of raters = **3**

rec_partyid	ICC	[95% conf. interval]	
Individual	.8149932	.7988858	.8302003
Average	.9296549	.922582	.9361752

F test that
 ICC=0.00: F(1259.0, 2518.0) = 14.31 Prob > F = 0.000

77.
 78. `icc rec_partyid panel_id yearintv if panel== 2,mixed absolute`
 (742 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **1277**
 Fixed effects: **yearintv** Number of raters = **3**

rec_partyid	ICC	[95% conf. interval]	
Individual	.8365014	.8222419	.8499529
Average	.9388334	.9327815	.9444251

F test that
 ICC=0.00: F(1276.0, 2552.0) = 16.38 Prob > F = 0.000

79.
 80. `icc rec_partyid panel_id yearintv if panel== 3,mixed absolute`
 (749 targets omitted from computation because not rated by all raters)

Intraclass correlations
 Two-way mixed-effects model
 Absolute agreement

Random effects: **panel_id** Number of targets = **1286**
 Fixed effects: **yearintv** Number of raters = **3**

rec_partyid	ICC	[95% conf. interval]	
Individual	.8164503	.8007671	.8312866
Average	.9302861	.9234172	.9366352

F test that
 ICC=0.00: $F(1285.0, 2570.0) = 14.34$ Prob > F = **0.000**

81.
 82. `/* cannot compute because no case (individual) observed in all waves of panel 4`
`>`
`> icc rec_partyid panel_id yearintv if panel== 4,mixed absolute`
`>`
`> */`
 83.
 84.
 85.
 86.
 87.
 88.
 89. `/**AR1 approach**/`
 90.
 91. `/*Party Identification*/`
 92. `eststo: xtregar rec_partyid age ib3.degree ib1.race ib1.sex ib1.rec_income ib1.pane`
`> l i.wavefe, re`
 note: **2018.wavefe** omitted because of collinearity.

RE GLS regression with AR(1) disturbances Number of obs = **18,754**
 Group variable: **panel_id** Number of groups = **10,406**

R-squared: Obs per group:

Within = 0.0000	min =	1
Between = 0.1153	avg =	1.8
Overall = 0.1122	max =	3

$\text{corr}(u_i, X_b) = 0$ (assumed) Wald chi2(20) = **1156.51**
 Prob > chi2 = **0.0000**

		theta		
min	5%	median	95%	max
0.5228	0.5228	0.6876	0.6876	0.6876

rec_partyid	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
age	-.0000179	.0009988	-0.02	0.986	-.0019755	.0019396
degree						
lt high school	-.0100533	.0535401	-0.19	0.851	-.1149899	.0948834
high school	.0377166	.0387462	0.97	0.330	-.0382246	.1136578
junior college	.0378265	.0519373	0.73	0.466	-.0639688	.1396218
graduate	-.3228235	.0512114	-6.30	0.000	-.4231959	-.2224511
race						
black	-1.419295	.0462612	-30.68	0.000	-1.509966	-1.328625
other	-.4184889	.0452934	-9.24	0.000	-.5072623	-.3297156
sex						
female	-.226572	.0339851	-6.67	0.000	-.2931816	-.1599625

rec_income						
\$1000 to 2999	.000212	.0377862	0.01	0.996	-.0738476	.0742715
\$3000 to 3999	.1242609	.0336536	3.69	0.000	.0583011	.1902208
888	.1350407	.0444632	3.04	0.002	.0478945	.2221869
panel						
2	-.0420853	.0566853	-0.74	0.458	-.1531865	.0690159
3	-.0393082	.0583764	-0.67	0.501	-.1537239	.0751074
4	-.0641588	.0587307	-1.09	0.275	-.1792688	.0509512
wavefe						
2008	-.1535497	.0287862	-5.33	0.000	-.2099696	-.0971298
2010	-.105137	.0305441	-3.44	0.001	-.1650024	-.0452717
2012	-.0979403	.0360334	-2.72	0.007	-.1685646	-.0273161
2014	-.0946584	.0437135	-2.17	0.030	-.1803353	-.0089815
2016	-.070452	.0558675	-1.26	0.207	-.1799503	.0390463
2018	0	(omitted)				
_cons	3.10659	.0791988	39.23	0.000	2.951363	3.261817
rho_ar	.07343041	(estimated autocorrelation coefficient)				
sigma_u	1.6211957					
sigma_e	.87807201					
rho_fov	.77318458	(fraction of variance due to u_i)				

(est1 stored)

93. estimates store rec_partyidar1

94.

95.

96. /*Ideological Identification*/

97. eststo: xtregar polviews age ib3.degree ib1.race ib1.sex ib1.rec_income ib1.panel i

> .wavefe, re

note: **2018.wavefe** omitted because of collinearity.

RE GLS regression with AR(1) disturbances

Number of obs = 18,278

Group variable: panel_id

Number of groups = 10,222

R-squared:

Within = 0.0010

Between = 0.0390

Overall = 0.0345

Obs per group:

min = 1

avg = 1.8

max = 3

corr(u_i, Xb) = 0 (assumed)

Wald chi2(20) = 403.80

Prob > chi2 = 0.0000

		theta		
min	5%	median	95%	max
0.3582	0.3582	0.5563	0.5563	0.5563

polviews	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
age	.0084096	.0007671	10.96	0.000	.006906	.0099131
degree						
lt high school	.1538976	.0454969	3.38	0.001	.0647253	.2430698
high school	.1784685	.0323787	5.51	0.000	.1150074	.2419296
junior college	.1858271	.0458476	4.05	0.000	.0959674	.2756869
graduate	-.3229501	.0442441	-7.30	0.000	-.4096669	-.2362333
race						
black	-.275123	.0365822	-7.52	0.000	-.3468227	-.2034232
other	-.1400487	.0401855	-3.49	0.000	-.2188108	-.0612866
sex						
female	-.0893465	.0262462	-3.40	0.001	-.1407881	-.0379049
rec_income						
\$1000 to 2999	.1297928	.0370192	3.51	0.000	.0572366	.2023491
\$3000 to 3999	.1888016	.0315056	5.99	0.000	.1270518	.2505514

888	.2103337	.0445815	4.72	0.000	.1229556	.2977118
panel						
2	.0572592	.0431848	1.33	0.185	-.0273815	.1418999
3	.0157217	.0456336	0.34	0.730	-.0737184	.1051619
4	-.0802264	.0463539	-1.73	0.083	-.1710784	.0106256
wavefe						
2008	-.0769016	.0305827	-2.51	0.012	-.1368426	-.0169607
2010	-.0470699	.0320164	-1.47	0.142	-.1098209	.0156811
2012	-.0339988	.0378057	-0.90	0.368	-.1080967	.040099
2014	-.096107	.045663	-2.10	0.035	-.1856047	-.0066092
2016	.0098932	.0440016	0.22	0.822	-.0763484	.0961348
2018	0	(omitted)				
_cons	3.573294	.0645982	55.32	0.000	3.446684	3.699904
rho_ar	.03704198	(estimated autocorrelation coefficient)				
sigma_u	1.0935738					
sigma_e	.91465165					
rho_fov	.58839301	(fraction of variance due to u_i)				

(est2 stored)

98. estimates store polviewsar1

99.

100 /*Government spending too much, too little, or about the right amount on mil
> itary, armaments and defense.*/

101 eststo: xtregar rec_natarms age ib3.degree ib1.race ib1.sex ib1.rec_income ib1.pane
> l i.wavefe, re

note: 2018.wavefe omitted because of collinearity.

RE GLS regression with AR(1) disturbances Number of obs = 9,117
Group variable: panel_id Number of groups = 5,127

R-squared: Obs per group:
 Within = 0.0091 min = 1
 Between = 0.0960 avg = 1.8
 Overall = 0.0800 max = 3

corr(u_i, Xb) = 0 (assumed) Wald chi2(20) = 584.42
 Prob > chi2 = 0.0000

min		5%	theta	95%	max
0.2554		0.2554	median	0.4476	0.4476

rec_natarms	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
age	.0070221	.0005619	12.50	0.000	.0059207	.0081235
degree						
lt high school	.1999715	.0345796	5.78	0.000	.1321967	.2677464
high school	.2310746	.0245944	9.40	0.000	.1828705	.2792787
junior college	.2484976	.0356854	6.96	0.000	.1785554	.3184398
graduate	-.1173789	.0333812	-3.52	0.000	-.1828048	-.0519529
race						
black	-.1253832	.027118	-4.62	0.000	-.1785335	-.072233
other	-.1674497	.0304788	-5.49	0.000	-.2271872	-.1077123
sex						
female	.1095409	.0193692	5.66	0.000	.0715779	.1475039
rec_income						
\$1000 to 2999	-.0005436	.0299037	-0.02	0.985	-.0591538	.0580666
\$3000 to 3999	.0757208	.0246262	3.07	0.002	.0274543	.1239874
888	.0604918	.0359096	1.68	0.092	-.0098897	.1308733
panel						

2	-.0001042	.0317148	-0.00	0.997	-.062264	.0620556
3	.0428547	.0342759	1.25	0.211	-.0243248	.1100343
4	.183605	.0349207	5.26	0.000	.1151616	.2520484
wavefe						
2008	-.0671777	.0262229	-2.56	0.010	-.1185737	-.0157818
2010	.0345857	.0275283	1.26	0.209	-.0193687	.0885402
2012	.0257249	.0326037	0.79	0.430	-.0381771	.089627
2014	.1201542	.0394098	3.05	0.002	.0429125	.197396
2016	.0640926	.0330558	1.94	0.053	-.0006956	.1288808
2018	0	(omitted)				
_cons	1.2988	.0486678	26.69	0.000	1.203413	1.394187
rho_ar	.04350047	(estimated autocorrelation coefficient)				
sigma_u	.50737986					
sigma_e	.56535801					
rho_fov	.44611052	(fraction of variance due to u_i)				

(est3 stored)

102 estimates store rec_natarmsarl

103

104 /*Government spending too much, too little, or about the right amount on wel
> fare.*/

105 eststo: xtregar rec_natfare age ib3.degree ib1.race ib1.sex ib1.rec_income ib1.pane

> l i.wavefe, re

note: 2018.wavefe omitted because of collinearity.

RE GLS regression with AR(1) disturbances

Number of obs = 9,056

Group variable: panel_id

Number of groups = 5,107

R-squared:

Obs per group:

Within = 0.0051

min = 1

Between = 0.0679

avg = 1.8

Overall = 0.0610

max = 3

corr(u_i, Xb) = 0 (assumed)

Wald chi2(20) = 378.47

Prob > chi2 = 0.0000

min	5%	theta median	95%	max
0.2634	0.2634	0.4544	0.4544	0.4544

rec_natfare	Coefficient	Std. err.	z	P> z	[95% conf. interval]
age	-.0001668	.0005642	-0.30	0.768	-.0012726 .0009391
degree					
lt high school	-.0125921	.0345198	-0.36	0.715	-.0802497 .0550654
high school	-.0940552	.0245912	-3.82	0.000	-.1422531 -.0458572
junior college	-.1064523	.0354865	-3.00	0.003	-.1760047 -.0369
graduate	.0789776	.033336	2.37	0.018	.0136403 .144315
race					
black	.2774966	.0271054	10.24	0.000	.2243711 .3306222
other	.1305608	.0303731	4.30	0.000	.0710306 .1900911
sex					
female	.0130802	.0194232	0.67	0.501	-.0249885 .0511489
rec_income					
\$1000 to 2999	-.1088068	.0296207	-3.67	0.000	-.1668623 -.0507514
\$3000 to 3999	-.271761	.0245281	-11.08	0.000	-.3198353 -.2236868
888	-.164673	.0355292	-4.63	0.000	-.234309 -.0950369
panel					
2	.0008206	.031743	0.03	0.979	-.0613946 .0630357
3	-.0060726	.0342269	-0.18	0.859	-.073156 .0610108
4	-.032043	.0348611	-0.92	0.358	-.1003694 .0362834

wavefe						
2008	-.0078991	.0259093	-0.30	0.760	-.0586803	.0428821
2010	-.0858682	.0271954	-3.16	0.002	-.1391701	-.0325663
2012	-.1351554	.0322394	-4.19	0.000	-.1983434	-.0719674
2014	-.1514859	.0389421	-3.89	0.000	-.2278109	-.0751608
2016	-.0778014	.0330643	-2.35	0.019	-.1426061	-.0129966
2018	0	(omitted)				
_cons	2.099243	.0486747	43.13	0.000	2.003842	2.194643
rho_ar	.05343744	(estimated autocorrelation coefficient)				
sigma_u	.51111166					
sigma_e	.55578472					
rho_fov	.4582013	(fraction of variance due to u_i)				

(est4 stored)

106 estimates store rec_natfarearl

107

108 /*Government spending too much, too little, or about the right amount on imp
> roving and protecting the environment.*/

109 eststo: xtregar rec_natenvir age ib3.degree ib1.race ib1.sex ib1.rec_income ib1.pan
> el i.wavefe, re

note: 2018.wavefe omitted because of collinearity.

RE GLS regression with AR(1) disturbances Number of obs = 9,146
Group variable: panel_id Number of groups = 5,133

R-squared: Obs per group:
 Within = 0.0241 min = 1
 Between = 0.0489 avg = 1.8
 Overall = 0.0430 max = 3

corr(u_i, Xb) = 0 (assumed) Wald chi2(20) = 360.63
 Prob > chi2 = 0.0000

		theta		
min	5%	median	95%	max
0.2626	0.2626	0.4524	0.4524	0.4524

rec_natenvir	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
age	-.0052431	.0004701	-11.15	0.000	-.0061645	-.0043218
degree						
lt high school	-.0857138	.0287915	-2.98	0.003	-.1421441	-.0292836
high school	-.0362669	.0204314	-1.78	0.076	-.0763117	.0037778
junior college	-.0259508	.0295265	-0.88	0.379	-.0838216	.03192
graduate	.0566119	.0277889	2.04	0.042	.0021467	.1110772
race						
black	.0669144	.0225321	2.97	0.003	.0227523	.1110766
other	-.0482015	.025221	-1.91	0.056	-.0976339	.0012308
sex						
female	.0994786	.0161764	6.15	0.000	.0677734	.1311838
rec_income						
\$1000 to 2999	-.0205728	.0246516	-0.83	0.404	-.0688891	.0277434
\$3000 to 3999	-.006668	.0203797	-0.33	0.744	-.0466114	.0332755
888	-.0675294	.0297164	-2.27	0.023	-.1257724	-.0092864
panel						
2	-.0078254	.0264592	-0.30	0.767	-.0596844	.0440336
3	-.0218768	.0285798	-0.77	0.444	-.0778922	.0341385
4	-.0263904	.0290002	-0.91	0.363	-.0832297	.0304489
wavefe						
2008	-.0288634	.0215913	-1.34	0.181	-.0711816	.0134547

2010	-.1567149	.0226615	-6.92	0.000	-.2011307	-.1122991
2012	-.1476643	.026809	-5.51	0.000	-.2002089	-.0951197
2014	-.108028	.0324416	-3.33	0.001	-.1716124	-.0444436
2016	-.0828766	.0274168	-3.02	0.003	-.1366125	-.0291407
2018	0	(omitted)				
_cons	2.866609	.0405261	70.73	0.000	2.787179	2.946039
rho_ar	.05723183	(estimated autocorrelation coefficient)				
sigma_u	.42853135					
sigma_e	.46712008					
rho_fov	.45699529	(fraction of variance due to u_i)				

(est5 stored)

110 estimates store rec_natenvirarl

111

112 /*The number of immigrants to America nowadays should be reduced a lot, reduced a little, remain the same as it is, increased a little, or increased a lot*/

113 eststo: xtregar rec_letinla age ib3.degree ib1.race ib1.sex ib1.rec_income ib1.pan

> el i.wavefe, re

note: 2018.wavefe omitted because of collinearity.

RE GLS regression with AR(1) disturbances

Number of obs = 11,025

Group variable: panel_id

Number of groups = 6,571

R-squared:

Within = 0.0023

Between = 0.1051

Overall = 0.0899

Obs per group:

min = 1

avg = 1.7

max = 3

corr(u_i, Xb) = 0 (assumed)

Wald chi2(19) = 782.33

Prob > chi2 = 0.0000

		theta		
min	5%	median	95%	max
0.2697	0.2697	0.3949	0.4720	0.4720

rec_letinla	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
age	-.0064484	.0006939	-9.29	0.000	-.0078084	-.0050884
degree						
lt high school	-.2998564	.0431324	-6.95	0.000	-.3843944	-.2153185
high school	-.3893987	.0307554	-12.66	0.000	-.4496782	-.3291192
junior college	-.3491928	.0449794	-7.76	0.000	-.4373507	-.2610349
graduate	.1593923	.0430282	3.70	0.000	.0750586	.2437261
race						
black	.3133047	.0332593	9.42	0.000	.2481176	.3784918
other	.46962	.0398882	11.77	0.000	.3914406	.5477994
sex						
female	-.0160527	.0238703	-0.67	0.501	-.0628377	.0307323
rec_income						
\$1000 to 2999	-.0929898	.0380375	-2.44	0.014	-.167542	-.0184376
\$3000 to 3999	-.0680954	.0314047	-2.17	0.030	-.1296476	-.0065432
888	-.1226487	.0457381	-2.68	0.007	-.2122937	-.0330036
panel						
2	-.0054919	.0391204	-0.14	0.888	-.0821665	.0711826
3	.0090046	.0415188	0.22	0.828	-.0723709	.09038
4	.4299805	.0432191	9.95	0.000	.3452726	.5146884
wavefe						
2010	.0572006	.0241142	2.37	0.018	.0099377	.1044635
2012	.0985565	.0291687	3.38	0.001	.041387	.155726
2014	.1598349	.0394695	4.05	0.000	.0824762	.2371937
2016	-.1571917	.0395943	-3.97	0.000	-.2347951	-.0795883

2018	0	(omitted)				
_cons	2.89662	.0616848	46.96	0.000	2.77572	3.01752
rho_ar	.01086591 (estimated autocorrelation coefficient)					
sigma_u	.71735519					
sigma_e	.7668692					
rho_fov	.46667689 (fraction of variance due to u_i)					

(est6 stored)

```

114 estimates store rec_letinlaarl
115
116 /*combine estimates from six models into one table for paper*/
117 esttab rec_partyidar1 polviewsar1 rec_natarmsar1 rec_natfarear1 rec_natenvirar1 rec_
> letinlaarl using gssar1.csv, replace se stat(rho_ar sigma_u sigma_e rho_fov N N_g)
> star(* 0.10 ** 0.05 *** 0.01) t(3) b(3)
(file gssar1.csv not found)
(output written to gssar1.csv)

118
119
120
121
122
123
124 /*Arellano-Bond linear dynamic panel-data estimation approach*/
125
126 /*cannot compute because artests() exceed the number of time periods*/
127 //Error: Equation not identified. Regessors outnumber instruments.
128
129 /* Dropping singleton observations did not fix the issue.
> //bysort panel_id (yearintv): drop if _N==1
> */
130
131
132 /* Commented out because we could not estimate the Arellano-Bond linear dynamic pane
> l-data estimates due to the error discribed above.
>
>
> char degree[omit] 3
>
> char race[omit] 1
> char sex[omit] 1
> char rec_income[omit] 1
> char panel[omit] 1
> char wavefe[omit] 2006
>
>
> /*Ideological Identification*/
> eststo: xi: xtabond polviews age i.degree i.race i.sex i.rec_income i.panel i.wavef
> e, lags(1) artests(2)
> estimates store polviewsdynamic
>
> /*Party Identification*/
> eststo: xi: xtabond rec_partyid age i.degree i.race i.sex i.rec_income i.panel i.wa
> vefe, lags(1) artests(2)
> estimates store rec_partyiddynamic
>
> /*Government spending too much, too little, or about the right amount on mil
> itary, armaments and defense.*/
> eststo: xi: xtabond rec_natarms age i.degree i.race i.sex i.rec_income i.panel i.wa
> vefe, lags(1) artests(2)
> estimates store rec_natarmsdynamic
>
>
> /*Government spending too much, too little, or about the right amount on wel
> fare.*/
> eststo: xi: xtabond rec_natfare age i.degree i.race i.sex i.rec_income i.panel i.wa
> vefe, lags(1) artests(2)
> estimates store rec_natfaredynamic

```

```

>
> /*Government spending too much, too little, or about the right amount on imp
> roving and protecting the environment.*/
> eststo: xi: xtabond rec_natenvir age i.degree i.race i.sex i.rec_income i.panel i.w
> avefe, lags(1) artests(2)
> estimates store rec_natenvirdynamic
>
> /*The number of immigrants to America nowadays should be reduced a lot, redu
> ced a little, remain the same as it is, increased a little, or increased a lot*/
> eststo: xi: xtabond rec_letinla age i.degree i.race i.sex i.rec_income i.panel i.wa
> vefe, lags(1) artests(2)
> estimates store rec_letinladynamic
>
> /*combine estimates from six models into one table for paper*/
> esttab polviewsdynamic rec_partyiddynamic rec_natarmsdynamic rec_natfaredynamic re
> c_natenvirdynamic rec_letinladynamic using gssdynamic.csv, replace se
>
> */
133
134
135
136
137
138
139 /*Rolling correlation*/
140
141 /*removing explanatory variables from dataset and reshaping dataset to wide*/
142
143 keep panel_id yearintv polviews rec_natarms rec_natfare rec_natenvir rec_letinla rec
> _partyid
144
145 reshape wide polviews rec_natarms rec_natfare rec_natenvir rec_letinla rec_partyid,
> i(panel_id) j(yearintv)
(j = 2006 2008 2010 2012 2014 2016 2018 2020)

```

Data	Long	->	Wide
Number of observations	21,648	->	11,282
Number of variables	8	->	49
j variable (8 values)	yearintv	->	(dropped)
xij variables:			
> 020	polviews	->	polviews2006 polviews2008 ... polviews2
> _natarms2020	rec_natarms	->	rec_natarms2006 rec_natarms2008 ... rec
> _natfare2020	rec_natfare	->	rec_natfare2006 rec_natfare2008 ... rec
> ec_natenvir2020	rec_natenvir	->	rec_natenvir2006 rec_natenvir2008 ... r
> _letinla2020	rec_letinla	->	rec_letinla2006 rec_letinla2008 ... rec
> _partyid2020	rec_partyid	->	rec_partyid2006 rec_partyid2008 ... rec

```

146
147 save "gss_correlations.dta", replace
(file gss_correlations.dta not found)
file gss_correlations.dta saved

```

```

148
149
150
151 /*Ideological Identification*/
152 asdoc pwcrr polviews*, replace save(polviews_corr.doc)

```

	pol~2006	pol~2008	pol~2010	pol~2012	pol~2014	pol~2016	pol~2018	pol~2020
polviews2006	1.0000							
polviews2008	0.5766	1.0000						
polviews2010	0.5699	0.6130	1.0000					
polviews2012	.	0.5952	0.6390	1.0000				
polviews2014	.	.	0.6325	0.6446	1.0000			
polviews2016	1.0000		
polviews2018	1.0000	
polviews2020	0.6030	0.6842	1.0000

>
Click to Open File: [polviews_corr.doc](#)

```

153
154 /*Government spending too much, too little, or about the right amount on mil
> itary, armaments and defense.*/
155 asdoc pwcrr rec_natarms*, replace save(rec_natarms_corr.doc)

```

	re~s2006	re~s2008	re~s2010	re~s2012	re~s2014	re~s2016	re~s2018	re~s2020
rec_natar~06	1.0000							
rec_natar~08	0.4694	1.0000						
rec_natar~10	0.4412	0.5100	1.0000					
rec_natarm~2	.	0.4836	0.5558	1.0000				
rec_natarm~4	.	.	0.4951	0.5168	1.0000			
rec_natar~16	1.0000		
rec_natar~18	1.0000	
rec_natar~20	0.5537	0.5767	1.0000

>
Click to Open File: [rec_natarms_corr.doc](#)

```

156
157 /*Government spending too much, too little, or about the right amount on wel
> fare.*/
158 asdoc pwcrr rec_natfare*, replace save(rec_natfare_corr.doc)

```

	re~e2006	re~e2008	re~e2010	re~e2012	re~e2014	re~e2016	re~e2018	re~e2020
rec_natfa~06	1.0000							
rec_natfa~08	0.5047	1.0000						
rec_natfa~10	0.4543	0.5333	1.0000					
rec_natfar~2	.	0.4755	0.5329	1.0000				
rec_natfar~4	.	.	0.4818	0.5160	1.0000			
rec_natfa~16	1.0000		
rec_natfa~18	1.0000	
rec_natfa~20	0.4617	0.5616	1.0000

>
Click to Open File: [rec_natfare_corr.doc](#)

```

159
160 /*Government spending too much, too little, or about the right amount on imp
> roving and protecting the environment.*/
161 asdoc pwcrr rec_natenvir*, replace save(rec_natenvir_corr.doc)

```

	re~r2006	re~r2008	re~r2010	re~r2012	re~r2014	re~r2016	re~r2018	re~r2020
rec_naten~06	1.0000							
rec_naten~08	0.4638	1.0000						
rec_naten~10	0.4596	0.4883	1.0000					
rec_natenv~2	.	0.3708	0.5461	1.0000				
rec_natenv~4	.	.	0.5142	0.5784	1.0000			
rec_naten~16	1.0000		
rec_naten~18	1.0000	
rec_naten~20	0.4938	0.5117	1.0000

>
Click to Open File: [rec_natenvir_corr.doc](#)

```

162
163 /*The number of immigrants to America nowadays should be reduced a lot, redu
> ced a little, remain the same as it is, increased a little, or increased a lot*/
164 asdoc pwcrr rec_letinla*, replace save(rec_letinla_corr.doc)

```

	rec_l~06	rec_l~08	rec_l~10	rec_le~2	rec_le~4	rec_l~16	rec_l~18	rec_l~20
rec_let~2006	.							
rec_let~2008	.	1.0000						
rec_let~2010	.	0.5063	1.0000					
rec_let~2012	.	0.5093	0.4943	1.0000				
rec_let~2014	.	.	0.4865	0.5199	1.0000			
rec_let~2016	1.0000		
rec_let~2018	1.0000	
rec_let~2020	0.4936	0.5456	1.0000

>
Click to Open File: [rec_letinla_corr.doc](#)

```

165
166 /*Party Identification*/
167 asdoc pwcrr rec_partyid*, replace save(rec_partyid_corr.doc)

```

	rec_p~06	rec_p~08	rec_p~10	rec_pa~2	rec_pa~4	rec_p~16	rec_p~18	rec_p~20
rec_par~2006	1.0000							
rec_par~2008	0.8265	1.0000						
rec_par~2010	0.7764	0.8316	1.0000					
rec_par~2012	.	0.8153	0.8412	1.0000				
rec_par~2014	.	.	0.7896	0.8283	1.0000			
rec_par~2016	1.0000		
rec_par~2018	1.0000	
rec_par~2020	0.7312	0.8129	1.0000

>
Click to Open File: [rec_partyid_corr.doc](#)

```

168
169
170 log close
      name: <unnamed>
      log: C:\Dropbox\Alecia\Stability of Political Attitudes\Replication Prep\GSS\d
> ata\comparisons.smcl
      log type: smcl
      closed on: 10 Dec 2025, 19:20:51

```